BRUHATH BANGALORE MAHANAGARA PALIKE
EXECUTIVE ENGINEER
YELAHANKA DIVISION

QUALITY REPORT

2nd & FINAL BILL

Name of Work: Improvements to Burial Ground at Yelahanka and Kenchenahalli in Ward No.01 & 02 of Yelahanka Sub Division (PACKAGE-03).

Qualiex Civil Design & Consultancy
Project Management Services
Address: 18th Cross Road, Sri Rampura Main Road, Jakkur, Amruthahalli,

Job No: QECD/BBMP/YNK/QC-2/P-3/W-1/2020-21

Test Report

Project Name	Improvements to Burial Ground at Yelahanka and Kenchenahalli in Ward No.01 & 02 of Yelahanka Sub Division (PACKAGE-03)
Client	The Asst Executive Engineer, Yelahanka Sub Division, BBMP
Mix Type	PCC(1:3:6)
Contractor	Sri.Rajeswaren Satheesh (Sathya Constructions)
Test Method	IS : 4031 (Part 5) -1988 & Specification for Road & Bridge Works, MORT&H, Rev-V.
Location	Yelahanka Burial ground
Material	Cement
Sample No	1
Sample Collected Date	12-Dec-2020
Test Date	14-Dec-2020

Consistency test

	Trail No	Weight of Cement	Percentage of water added (%)	Weight of Water (gm)	Initial Reading of Plunger (mm)	Difference (mm)
Consistency test of Cement	1	400	28.0	112	40	18
	2	400	29.0	116	40	18.5
	3	400	28.5	114	40	13
	4	400	29.0	116	40	7.5
	5	400	30.0	120	40	6

Results: Standard Consistency of Cement: 30.50%

A.E.E

For Qualiex Civil Design & Consultancy

Authorised Signature

Address: #42, 18th Cross, Sri Ram Pura Main Road, Jakkur, Amruthahalli, Bangalore-560064
Ph No:- +91 9482685185, +91 9035830663
Email: qualiexpvtltd@gmail.com

Job No: QECD/BBMP/YNK/QC-2/P-3/W-1/2020-21

Test Report

Project Name	Improvements to Burial Ground at Yelahanka and Kenchenahalli in Ward No.01 & 02 of Yelahanka Sub Division (PACKAGE-03)
Client	The Asst Executive Engineer, Yelahanka Sub Division, BBMP
Mix Type	PCC(1:3:6)
Contractor	Sri.Rajeswaren Satheesh (Sathya Constructions)
Test Method	IS : 4031 (Part 5) -1988 & Specification for Road & Bridge Works, MORT&H, Rev-V.
Location	Yelahanka Burial ground
Material	Cement
Sample No	2
Sample Collected Date	4-Jan-2021
Test Date	6-Jan-2021

AE-1

A.E.E

AE

Consistency test

	Trail No	Weight of Cement	Percentage of water added (%)	Weight of Water (gm)	Initial Reading of Plunger (mm)	Difference (mm)
Consistency test of Cement	1	400	27.0	108	40	18.00
	2	400	27.5	110	40	15.00
	3	400	28.0	112	40	12.00
	4	400	30.0	120	40	7.00
	5	400	27.5	110	40	6.50

Results: Standard Consistency of Cement: 30.50%

For Qualiex Civil Design & Consultancy

Authorised Signature

Job No: QECD/BBMP/YNK/QC-2/P-3/W-1/2020-21

Test Report

Project Name	Improvements to Burial Ground at Yelahanka and Kenchenahalli in Ward No.01 & 02 of Yelahanka Sub Division (PACKAGE-03)
Client	The Asst Executive Engineer, Yelahanka Sub Division, BBMP
Mix Type	PCC(1:3:6)
Contractor	Sri.Rajeswaren Satheesh (Sathya Constructions)
Test Method	IS : 4031 (Part 5) -1988 & Specification for Road & Bridge Works, MORT&H, Rev-V.
Location	Yelahanka Burial ground
Material	Cement
Sample No	2
Sample Collected Date	4-Jan-21
Test Date	6-Jan-21

AE-1

A.E.E

AE

Fineness Test of Cement

Sl. No.	Weight of Cement Sample	Weight Cement Sample Retained on 90μm Sieve (gms)	Fineness of Cement (%)	Average (%)
1	100 gm	8.50	8.50	8.38
2	100 gm	7.55	7.55	
3	100 gm	9.10	9.10	

Results: Residue of cement is: 8.38%

Comments: Maximum allowable residue by mass for ordinary portlad cement is 10%

For Qualiex Civil Design & Consultancy

Authorised Signature

Job No: QECD/BBMP/YNK/QC-2/P-3/W-1/2020-21

Test Report

Project Name	Improvements to Burial Ground at Yelahanka and Kenchenahalli in Ward No.01 & 02 of Yelahanka Sub Division (PACKAGE-03)
Client	The Asst Executive Engineer, Yelahanka Sub Division, BBMP
Mix Type	PCC(1:3:6)
Contractor	Sri.Rajeswaren Satheesh (Sathya Constructions)
Test Method	IS : 4031 (Part 3) -1988 & Specification for Road & Bridge Works, MORT&H, Rev-V.
Location	Yelahanka Burial ground
Material	Cement
Sample No	2
Sample Collected Date	4-Jan-2021
Date	6-Jan-2021

AE-1

A.E.E

AE

Soundness Test of Cement

Sl. No.	Description	Trial 1	Trial 2	Trial 3
1	Initial Distance between the indicator points of Lechatelier mould	10	11	10
2	Final Distance between the indicator points of Lechatelier mould	15	13.5	19.5
3	Difference or expansion	5	2.5	9.5
4	Average Differences or Expansion in mm	5.67		

Results: Difference in Expansion of Cement: 5.67mm
Comments: Maximum allowable Expansion of cement is 10mm.

For Qualiex Civil Design & Consultancy

Authorised Signature

Job No: OECD/BBMP/YNK/QC-2/P-3/W-1/2020-21

Test Report

Project Name	Improvements to Burial Ground at Yelahanka and Kenchenahalli in Ward No.01 & 02 of Yelahanka Sub Division (PACKAGE-03)
Client	The Asst Executive Engineer, Yelahanka Sub Division, BBMP
Mix Type	PCC(1:3:6)
Contractor	Sri.Rajeswaren Satheesh (Sathya Constructions)
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Yelahanka Burial ground
Material	Cement
Size of cubes	70.60x70.60x70.60mm
Cross Sectional Area	4984.36 mm2
Sample No	1
Sample Collected Date	12-Dec-2020
Test Date	19-Dec-2020

A.E.E

Compressive strength of Cement

Cube	Cement Grade	Age at Test (Days)	Weight (kg)	Density (kg/m3)	Max. Load (KN)	Area (mm2)	Compressive Strength (N/mm2)	Average Sample (n/mm2)
1	43	7	1.00	2278.03	188	4984.36	37.72	37.22
2	43	7	1.00	2278.03	183	4984.36	36.71	

Results: 7-days Compressive strength of cement is 37.22N/mm^2

Comments: 7-days Compressive strength of cement should not be less than 33 N/mm^2

For Qualiex Civil Design & Consultancy

Authorised Signature

Address: #42, 18th Cross, Sri Ram Pura Main Road, Jakkur, Amruthahalli, Bangalore-560064
Ph No:- +91 9482685185, +91 9035830663
Email: qualiexpvtltd@gmail.com

Job No: QECD/BBMP/YNK/QC-2/P-3/W-1/2020-21

Test Report
Gradation test

Project Name	Improvements to Burial Ground at Yelahanka and Kenchenahalli in Ward No.01 & 02 of Yelahanka Sub Division (PACKAGE-03)
Client	The Asst Executive Engineer, Yelahanka Sub Division, BBMP
Mix Type	PCC(1:3.6)
Contractor	Sri.Rajeswaren Satheesh (Sathya Constructions)
Test Method	IS : 2386 (Part - 1) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Yelahanka Burial ground
Material	Coarse aggregates
Sample No	1
Sample Collected Date	12-Dec-2020
Test Date	14-Dec-2020

Gradation of Coarse Aggregate

Weight of Sample: 4000 gms

Sl. No	I.S. Sieve size	Weight Retained (gm)	Percentage of weight Retained	Cumulative Percentage of weight	Cumulative % of Passing		Remarks
					Test Result	Gradation Limits as per	
1	31.50	0	0.00	0.00	100.00	100	
2	26.50	514	12.85	12.85	87.15	85-95	
3	19.00	362	9.05	21.90	78.10	68-88	
4	9.50	653	16.33	38.23	61.78	45-65	
5	4.75	435	10.88	49.10	50.90	30-55	
6	0.60	968	24.20	73.30	26.70	8-30	
7	0.15	832	20.80	94.10	5.90	5-15	
8	0.08	154	3.85	97.95	2.05	0-5	

A.E.E

For Qualiex Civil Design & Consultancy

Authorised Signature

Job No: QECD/BBMP/YNK/QC-2/P-3/W-1/2020-21

Test Report

Project Name	Improvements to Burial Ground at Yelahanka and Kenchenahalli in Ward No.01 & 02 of Yelahanka Sub Division (PACKAGE-03)
Client	The Asst Executive Engineer, Yelahanka Sub Division, BBMP
Mix Type	PCC(1:3:6)
Contractor	Sri.Rajeswaren Satheesh (Sathya Constructions)
Test Method	IS : 2386 (Part - 3) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Yelahanka Burial ground
Material	Coarse aggregates
Sample No	1
Sample Collected Date	12-Dec-2020
Test Date	14-Dec-2020

Water Absorption of Coarse Aggregate

Sl. No.	Particulars	Computations	Test Numbers		Mean
			Test 1	Test 2	
1	Weight of SSD sample	W_1 g	800	800	
2	Wt of Basket Filled with Aggregates Immersed in water	W_2g	1954	2100	
3	Weight of Saturated Aggregate in water	W_3g = W_2-W_1	1154	1300	
4	Weight of saturated surface dry aggregate in Air	W_3 g	1989	2125	
5	Weight of water equal to the Volume of the Aggregate	W_3- W_4	835	825	
6	Weight of Oven dried Aggregate	W_4g	1950	2096	
7	Specific Gravity	W_4/(W_3- W_4)	2.34	2.54	2.44
8	Apparent Specific Gravity	W_4/(W_4- W_4)	2.45	2.63	2.54
9	Water Absorption	(W_4- W_3)*100/ W_4	2	1.38	1.69

A.E.E

Comments: Maximum allowable Aggregate Water Absorption value is 2.0%.

For Qualiex Civil Design & Consultancy

Authorised Signatory

Job No: QECD/BBMP/YNK/QC-2/P-3/W-1/2020-21

Test Report

Project Name	Improvements to Burial Ground at Yelahanka and Kenchenahalli in Ward No.01 & 02 of Yelahanka Sub Division (PACKAGE-03)
Client	The Asst Executive Engineer, Yelahanka Sub Division, BBMP
Mix Type	PCC(1:3:6)
Contractor	Sri.Rajeswaren Satheesh (Sathya Constructions)
Test Method	IS : 2386 (Part - 1) 1963 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Yelahanka Burial ground
Material	Coarse Aggregates
Sample No	2
Sample Collected Date	4-Jan-2021
Test Date	6-Jan-2021

Water Absorption of Coarse Aggregate

Sl. No.	Particulars	Computations	Test Numbers		Mean
			Test 1	Test 2	
1	Weight of Empty Basket Immersed in Water	W_1 g	765	765	
2	wt of Basket Filled with Aggregates Immersed in water	W_2g	2015	2144	
3	Weight of Saturated Aggregate in water	$W_s g = W_2 - W_1$	1250	1379	
4	Weight of saturated surface dry aggregate in Air	W_3 g	2050	2169	
5	Weight of water equal to the Volume of the Aggregate	$W_3 - W_s$	800	790	
6	Weight of Oven dried Aggregate	W_4g	2011	2140	
7	Specific Gravity	$W_4/(W_3 - W_s)$	2.51	2.71	2.61
8	Apparent Specific Gravity	$W_4/(W_4 - W_s)$	2.64	2.81	2.73
9	Water Absorption	$(W_4 - W_3)*100/W_4$	1.94	1.36	1.65

Comments: Maximum allowable Aggregate Water Absorption value is 2.0%.

A.E.E

For Qualiex Civil Design & Consultancy

Authorised Signature

Job No: QECD/BBMP/YNK/QC-2/P-3/W-1/2020-21

Test Report

Project Name	Improvements to Burial Ground at Yelahanka and Kenchenahalli in Ward No.01 & 02 of Yelahanka Sub Division (PACKAGE-03)
Client	The Asst Executive Engineer, Yelahanka Sub Division, BBMP
Mix Type	Concrete(M20)
Contractor	Sri.Rajeswaren Satheesh (Sathya Constructions)
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Yelahanka Burial ground
Material	Concrete for Footing
Size of cubes	150x150x150mm
Cross Sectional Area	22500mm2
Sample No	1
Sample Collected Date	14-Dec-2020
Test Date	21-Dec-2020

Compressive strength of Concrete

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Density (kg/m^3)	Max. Load (KN)	Area (mm^2)	Compressive Strength (N/mm^2)	Avg. Strength
1	20	7	5.00	1481.48	321	22500.00	14.27	14.53
2	20	7	5.00	1481.48	316	22500.00	14.04	
3	20	7	5.00	1481.48	332	22500.00	14.76	
4	20	7	5.00	1481.48	324	22500.00	14.40	
5	20	7	5.00	1481.48	351	22500.00	15.60	
6	20	7	5.00	1481.48	318	22500.00	14.13	

A.E.E

Results: 7-days Compressive strength of cement is **14.53** N/mm2

For Qualiex Civil Design & Consultancy

Authorised Signature

Job No: QECD/BBMP/YNK/QC-2/P-3/W-1/2020-21

Test Report

Project Name	Improvements to Burial Ground at Yelahanka and Kenchenahalli in Ward No.01 & 02 of Yelahanka Sub Division (PACKAGE-03)
Client	The Asst Executive Engineer, Yelahanka Sub Division, BBMP
Mix Type	Concrete(M20)
Contractor	Sri.Rajeswaren Satheesh (Sathya Constructions)
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Yelahanka Burial ground
Material	Concrete for Footing
Size of cubes	150x150x150mm
Cross Sectional Area	22500mm2
Sample No	2
Sample Collected Date	14-Dec-2020
Test Date	21-Dec-2020

Compressive strength of Concrete

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Density (kg/m^3)	Max. Load (KN)	Area (mm^2)	Compressive Strength (N/mm^2)	Avg. Strength
1	20	7	5.00	1481.48	325	22500.00	14.44	14.36
2	20	7	5.00	1481.48	321	22500.00	14.27	
3	20	7	5.00	1481.48	315	22500.00	14.00	
4	20	7	5.00	1481.48	332	22500.00	14.76	
5	20	7	5.00	1481.48	324	22500.00	14.40	
6	20	7	5.00	1481.48	322	22500.00	14.31	

A.E.E

Results: 7-days Compressive strength of cement is **14.36** N/mm2

For Qualiex Civil Design & Consultancy

Authorised Signature

Address: #42, 18th Cross, Sri Ram Pura Main Road, Jakkur, Amruthahalli, Bangalore-560064
Ph No:- +91 9482685185, +91 9035830663
Email: qualiexpvtltd@gmail.com

GSTIN: 29AYHPN8663P1ZA
QUALIEX CIVIL DESIGN & CONSULTANCY
Project Management Services

Job No: QECD/BBMP/YNK/QC-2/P-3/W-1/2020-21

Test Report

Project Name	Improvements to Burial Ground at Yelahanka and Kenchenahalli in Ward No.01 & 02 of Yelahanka Sub Division (PACKAGE-03)
Client	The Asst Executive Engineer, Yelahanka Sub Division, BBMP
Mix Type	Concrete(M20)
Contractor	Sri.Rajeswaren Satheesh (Sathya Constructions)
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Yelahanka Burial ground
Material	Concrete for Footing
Size of cubes	150x150x150mm
Cross Sectional Area	22500mm2
Sample No	4
Sample Collected Date	14-Dec-2020
Test Date	21-Dec-2020

AGM
A.E.E
JE

Compressive strength of Concrete

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Density (kg/m^3)	Max. Load (KN)	Area (mm^2)	Compressive Strength (N/mm^2)	Avg. Strength
1	20	7	5.00	1481.48	324	22500.00	14.40	14.34
2	20	7	5.00	1481.48	316	22500.00	14.04	
3	20	7	5.00	1481.48	324	22500.00	14.40	
4	20	7	5.00	1481.48	332	22500.00	14.76	
5	20	7	5.00	1481.48	321	22500.00	14.27	
6	20	7	5.00	1481.48	319	22500.00	14.18	

Results: 7-days Compressive strength of cement is **14.34** N/mm2

For Qualiex Civil Design & Consultancy

Authorised Signature

Address: #42, 18th Cross, Sri Ram Pura Main Road, Jakkur, Amruthahalli, Bangalore-560064
Ph No:- +91 9482685185, +91 9035830663
Email: qualiexpvtltd@gmail.com

Job No: QECD/BBMP/YNK/QC-2/P-3/W-1/2020-21

Test Report

Project Name	Improvements to Burial Ground at Yelahanka and Kenchenahalli in Ward No.01 & 02 of Yelahanka Sub Division (PACKAGE-03)
Client	The Asst Executive Engineer, Yelahanka Sub Division, BBMP
Mix Type	Concrete(M20)
Contractor	Sri.Rajeswaren Satheesh (Sathya Constructions)
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V
Location	Yelahanka Burial ground
Material	Concrete for Footing
Size of cubes	150x150x150mm
Cross Sectional Area	22500mm2
Sample No	5
Sample Collected Date	14-Dec-2020
Test Date	21-Dec-2020

Compressive strength of Concrete

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Density (kg/m^3)	Max. Load (KN)	Area (mm^2)	Compressive Strength (N/mm^2)	Avg. Strength
1	20	7	5.00	1481.48	325	22500.00	14.44	14.36
2	20	7	5.00	1481.48	341	22500.00	15.16	
3	20	7	5.00	1481.48	321	22500.00	14.27	
4	20	7	5.00	1481.48	322	22500.00	14.31	
5	20	7	5.00	1481.48	316	22500.00	14.04	
6	20	7	5.00	1481.48	314	22500.00	13.96	

A.E.E

Results: 7-days Compressive strength of cement is **14.36** N/mm2

For Qualiex Civil Design & Consultancy

Authorised Signature

Address: #42, 18th Cross, Sri Ram Pura Main Road, Jakkur, Amruthahalli, Bangalore-560064
Ph No:- +91 9482685185, +91 9035830663
Email: qualiexpvtltd@gmail.com

Job No: QECD/BBMP/YNK/QC-2/P-3/W-1/2020-21

Test Report

Project Name	Improvements to Burial Ground at Yelahanka and Kenchenahalli in Ward No.01 & 02 of Yelahanka Sub Division (PACKAGE-03)
Client	The Asst Executive Engineer, Yelahanka Sub Division, BBMP
Mix Type	Concrete(M20)
Contractor	Sri.Rajeswaren Satheesh (Sathya Constructions)
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Yelahanka Burial ground
Material	Concrete for Footing
Size of cubes	150x150x150mm
Cross Sectional Area	22500mm2
Sample No	1
Sample Collected Date	14-Dec-2020
Test Date	11-Jan-2021

Compressive strength of Concrete

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Density (kg/m^3)	Max. Load (KN)	Area (mm^2)	Compressive Strength (N/mm^2)	Avg. Strength
1	20	28	5.00	1481.48	520	22500.00	23.11	22.77
2	20	28	5.00	1481.48	516	22500.00	22.93	
3	20	28	5.00	1481.48	510	22500.00	22.67	
4	20	28	5.00	1481.48	503	22500.00	22.36	
5	20	28	5.00	1481.48	501	22500.00	22.27	
6	20	28	5.00	1481.48	524	22500.00	23.29	

A.E.E

Results: 28-days Compressive strength of cement is **22.77** N/mm2

For Qualiex Civil Design & Consultancy

Authorised Signature

Address: #42, 18th Cross, Sri Ram Pura Main Road, Jakkur, Amruthahalli, Bangalore-560064
Ph No:- +91 9482685185, +91 9035830663
Email: qualiexpvtltd@gmail.com

Job No: QECD/BBMP/YNK/QC-2/P-3/W-1/2020-21

Test Report

Project Name	Improvements to Burial Ground at Yelahanka and Kenchenahalli in Ward No.01 & 02 of Yelahanka Sub Division (PACKAGE-03)
Client	The Asst Executive Engineer, Yelahanka Sub Division, BBMP
Mix Type	Concrete(M20)
Contractor	Sri.Rajeswaren Satheesh (Sathya Constructions)
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Yelahanka Burial ground
Material	Concrete for Footing
Size of cubes	150x150x150mm
Cross Sectional Area	22500mm2
Sample No	6
Sample Collected Date	14-Dec-2020
Test Date	21-Dec-2020

Compressive strength of Concrete

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Density (kg/m^3)	Max. Load (KN)	Area (mm^2)	Compressive Strength (N/mm^2)	Avg. Strength
1	20	7	5.00	1481.48	325	22500.00	14.44	14.19
2	20	7	5.00	1481.48	322	22500.00	14.31	
3	20	7	5.00	1481.48	318	22500.00	14.13	
4	20	7	5.00	1481.48	321	22500.00	14.27	
5	20	7	5.00	1481.48	316	22500.00	14.04	
6	20	7	5.00	1481.48	314	22500.00	13.96	

Results: 7-days Compressive strength of cement is **14.19 N/mm2**

For Qualiex Civil Design & Consultancy

Authorised Signature

Job No: QECD/BBMP/YNK/QC-2/P-3/W-1/2020-21

Test Report

Project Name	Improvements to Burial Ground at Yelahanka and Kenchenahalli in Ward No.01 & 02 of Yelahanka Sub Division (PACKAGE-03)
Client	The Asst Executive Engineer, Yelahanka Sub Division, BBMP
Mix Type	Concrete(M20)
Contractor	Sri.Rajeswaren Satheesh (Sathya Constructions)
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Yelahanka Burial ground
Material	Concrete for Footing
Size of cubes	150x150x150mm
Cross Sectional Area	22500mm2
Sample No	1
Sample Collected Date	14-Dec-2020
Test Date	11-Jan-2021

Compressive strength of Concrete

AE-1

A.E.E

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Density (kg/m^3)	Max. Load (KN)	Area (mm^2)	Compressive Strength (N/mm^2)	Avg. Strength
1	20	28	5.00	1481.48	520	22500.00	23.11	22.77
2	20	28	5.00	1481.48	516	22500.00	22.93	
3	20	28	5.00	1481.48	510	22500.00	22.67	
4	20	28	5.00	1481.48	503	22500.00	22.36	
5	20	28	5.00	1481.48	501	22500.00	22.27	
6	20	28	5.00	1481.48	524	22500.00	23.29	

Results: 28-days Compressive strength of cement is **22.77** N/mm2

For Qualiex Civil Design & Consultancy

Authorised Signature

Address: #42, 18th Cross, Sri Ram Pura Main Road, Jakkur, Amruthahalli, Bangalore-560064
Ph No:- +91 9482685185, +91 9035830663
Email: qualiexpvtltd@gmail.com

Job No: QECD/BBMP/YNK/QC-2/P-3/W-1/2020-21

Test Report

Project Name	Improvements to Burial Ground at Yelahanka and Kenchenahalli in Ward No.01 & 02 of Yelahanka Sub Division (PACKAGE-03)
Client	The Asst Executive Engineer, Yelahanka Sub Division, BBMP
Mix Type	Concrete(M20)
Contractor	Sri.Rajeswaren Satheesh (Sathya Constructions)
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Yelahanka Burial ground
Material	Concrete for Footing
Size of cubes	150x150x150mm
Cross Sectional Area	22500mm2
Sample No	3
Sample Collected Date	14-Dec-2020
Test Date	11-Jan-2021

Compressive strength of Concrete

A.E.E

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Density (kg/m³)	Max. Load (KN)	Area (mm²)	Compressive Strength (N/mm²)	Avg. Strength
1	20	28	5.00	1481.48	510	22500.00	22.67	22.91
2	20	28	5.00	1481.48	532	22500.00	23.64	
3	20	28	5.00	1481.48	501	22500.00	22.27	
4	20	28	5.00	1481.48	514	22500.00	22.84	
5	20	28	5.00	1481.48	512	22500.00	22.76	
6	20	28	5.00	1481.48	524	22500.00	23.29	

Results: 28-days Compressive strength of cement is **22.91** N/mm2

For Qualiex Civil Design & Consultancy

Authorised Signature

GSTIN: 29AYHPN8663P1ZA
QUALIEX CIVIL DESIGN & CONSULTANCY
Project Management Services

Job No: QECD/BBMP/YNK/QC-2/P-3/W-1/2020-21

Test Report

Project Name	Improvements to Burial Ground at Yelahanka and Kenchenahalli in Ward No.01 & 02 of Yelahanka Sub Division (PACKAGE-03)
Client	The Asst Executive Engineer, Yelahanka Sub Division, BBMP
Mix Type	Concrete(M20)
Contractor	Sri.Rajeswaren Satheesh (Sathya Constructions)
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Yelahanka Burial ground
Material	Concrete for Footing
Size of cubes	150x150x150mm
Cross Sectional Area	22500mm2
Sample No	5
Sample Collected Date	14-Dec-2020
Test Date	11-Jan-2021

Compressive strength of Concrete

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Density (kg/m^3)	Max. Load (KN)	Area (mm^2)	Compressive Strength (N/mm^2)	Avg. Strength
1	20	28	5.00	1481.48	526	22500.00	23.38	23.23
2	20	28	5.00	1481.48	542	22500.00	24.09	
3	20	28	5.00	1481.48	532	22500.00	23.64	
4	20	28	5.00	1481.48	510	22500.00	22.67	
5	20	28	5.00	1481.48	512	22500.00	22.76	
6	20	28	5.00	1481.48	514	22500.00	22.84	

A.E.E

Results: 28-days Compressive strength of cement is **23.23** N/mm2

For Qualiex Civil Design & Consultancy

Authorised Signature

Address: #42, 18th Cross, Sri Ram Pura Main Road, Jakkur, Amruthahalli, Bangalore-560064
Ph No:- +91 9482685185, +91 9035830663
Email: qualiexpvtltd@gmail.com

GSTIN: 29AYHPN8663P1ZA
QUALIEX CIVIL DESIGN & CONSULTANCY
Project Management Services

Job No: QECD/BBMP/YNK/QC-2/P-3/W-1/2020-21

Test Report

Project Name	Improvements to Burial Ground at Yelahanka and Kenchenahalli in Ward No.01 & 02 of Yelahanka Sub Division (PACKAGE-03)
Client	The Asst Executive Engineer, Yelahanka Sub Division, BBMP
Mix Type	Concrete(M20)
Contractor	Sri.Rajeswaren Satheesh (Sathya Constructions)
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Yelahanka Burial ground
Material	Concrete for Footing
Size of cubes	150x150x150mm
Cross Sectional Area	22500mm2
Sample No	6
Sample Collected Date	14-Dec-2020
Test Date	11-Jan-2021

Compressive strength of Concrete

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Density (kg/m^3)	Max. Load (KN)	Area (mm^2)	Compressive Strength (N/mm^2)	Avg. Strength
1	20	28	5.00	1481.48	520	22500.00	23.11	22.85
2	20	28	5.00	1481.48	530	22500.00	23.56	
3	20	28	5.00	1481.48	512	22500.00	22.76	
4	20	28	5.00	1481.48	503	22500.00	22.36	
5	20	28	5.00	1481.48	504	22500.00	22.40	
6	20	28	5.00	1481.48	516	22500.00	22.93	

A.E.E

Results: 28-days Compressive strength of cement is **22.85** N/mm2

For Qualiex Civil Design & Consultancy

Authorised Signature

Address: #42, 18th Cross, Sri Ram Pura Main Road, Jakkur, Amruthahalli, Bangalore-560064
Ph No:- +91 9482685185, +91 9035830663
Email: qualiexpvtltd@gmail.com

Job No: QECD/BBMP/YNK/OC-2/P-3/W-1/2020-21

Test Report

Project Name	Improvements to Burial Ground at Yelahanka and Kenchenahalli in Ward No.01 & 02 of Yelahanka Sub Division (PACKAGE-03)
Client	The Asst Executive Engineer, Yelahanka Sub Division, BBMP
Mix Type	Concrete(M20)
Contractor	Sri Rajeswaren Satheesh (Sathya Constructions)
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Yelahanka Burial ground
Material	Concrete for Plinth
Size of cubes	150x150x150mm
Cross Sectional Area	22500mm2
Sample No	1
Sample Collected Date	4-Jan-2021
Test Date	11-Jan-2021

Compressive strength of Concrete

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Density (kg/m^3)	Max. Load (KN)	Area (mm^2)	Compressive Strength (N/mm^2)	Avg. Strength
1	20	7	5.00	1481.48	321	22500.00	14.27	14.37
2	20	7	5.00	1481.48	325	22500.00	14.44	
3	20	7	5.00	1481.48	332	22500.00	14.76	
4	20	7	5.00	1481.48	314	22500.00	13.96	
5	20	7	5.00	1481.48	332	22500.00	14.76	
6	20	7	5.00	1481.48	316	22500.00	14.04	

A.E.E

Results: 7-days Compressive strength of cement is **14.37** N/mm2

For Qualiex Civil Design & Consultancy

Authorised Signature

Job No: QECD/BBMP/YNK/QC-2/P-3/W-1/2020-21

Test Report

Project Name	Improvements to Burial Ground at Yelahanka and Kenchenahalli in Ward No.01 & 02 of Yelahanka Sub Division (PACKAGE-03)
Client	The Asst Executive Engineer, Yelahanka Sub Division, BBMP
Mix Type	Concrete(M20)
Contractor	Sri.Rajeswaren Satheesh (Sathya Constructions)
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Yelahanka Burial ground
Material	Concrete for Plinth
Size of cubes	150x150x150mm
Cross Sectional Area	22500mm2
Sample No	2
Sample Collected Date	4-Jan-2021
Test Date	11-Jan-2021

Compressive strength of Concrete

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Density (kg/m^3)	Max. Load (KN)	Area (mm^2)	Compressive Strength (N/mm^2)	Avg. Strength
1	20	7	5.00	1481.48	325	22500.00	14.44	14.73
2	20	7	5.00	1481.48	341	22500.00	15.16	
3	20	7	5.00	1481.48	362	22500.00	16.09	
4	20	7	5.00	1481.48	321	22500.00	14.27	
5	20	7	5.00	1481.48	325	22500.00	14.44	
6	20	7	5.00	1481.48	314	22500.00	13.96	

A.E.E

Results: 7-days Compressive strength of cement is **14.73** N/mm2

For Qualiex Civil Design & Consultancy

Authorised Signature

Job No: QECD/BBMP/YNK/QC-2/P-3/W-1/2020-21

Test Report

Project Name	Improvements to Burial Ground at Yelahanka and Kenchenahalli in Ward No.01 & 02 of Yelahanka Sub Division (PACKAGE-03)
Client	The Asst Executive Engineer, Yelahanka Sub Division, BBMP
Mix Type	Concrete(M20)
Contractor	Sri.Rajeswaren Satheesh (Sathya Constructions)
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Yelahanka Burial ground
Material	Concrete for Plinth
Size of cubes	150x150x150mm
Cross Sectional Area	22500mm2
Sample No	1
Sample Collected Date	4-Jan-2021
Test Date	1-Feb-2021

Compressive strength of Concrete

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Density (kg/m^3)	Max. Load (KN)	Area (mm^2)	Compressive Strength (N/mm^2)	Avg. Strength
1	20	28	5.00	1481.48	524	22500.00	23.29	22.99
2	20	28	5.00	1481.48	515	22500.00	22.89	
3	20	28	5.00	1481.48	502	22500.00	22.31	
4	20	28	5.00	1481.48	516	22500.00	22.93	
5	20	28	5.00	1481.48	514	22500.00	22.84	
6	20	28	5.00	1481.48	532	22500.00	23.64	

A.E.E

Results: 28-days Compressive strength of cement is **22.99** N/mm2

For Qualiex Civil Design & Consultancy

Authorised Signature

Address: #42, 18th Cross, Sri Ram Pura Main Road, Jakkur, Amruthahalli, Bangalore-560064
Ph No:- +91 9482685185, +91 9035830663
Email: qualiexpvtltd@gmail.com

GSTIN: 29AYHPN8663P1ZA
QUALIEX CIVIL DESIGN & CONSULTANCY
Project Management Services

Job No: QECD/BBMP/YNK/QC-2/P-3/W-1/2020-21

Test Report

Project Name	Improvements to Burial Ground at Yelahanka and Kenchenahalli in Ward No.01 & 02 of Yelahanka Sub Division (PACKAGE-03)
Client	The Asst Executive Engineer, Yelahanka Sub Division, BBMP
Mix Type	Concrete(M20)
Contractor	Sri.Rajeswaren Satheesh (Sathya Constructions)
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Yelahanka Burial ground
Material	Concret for Column
Size of cubes	150x150x150mm
Cross Sectional Area	22500mm2
Sample No	J
Sample Collected Date	4-Jan-2021
Test Date	1-Feb-2021

Compressive strength of Concrete

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Density (kg/m^3)	Max. Load (KN)	Area (mm^2)	Compressive Strength (N/mm^2)	Avg. Strength
1	20	28	5.00	1481.48	524	22500.00	23.29	23.18
2	20	28	5.00	1481.48	532	22500.00	23.64	
3	20	28	5.00	1481.48	514	22500.00	22.84	
4	20	28	5.00	1481.48	526	22500.00	23.38	
5	20	28	5.00	1481.48	501	22500.00	22.27	
6	20	28	5.00	1481.48	532	22500.00	23.64	

Results: 28-days Compressive strength of cement is **23.18** N/mm2

For Qualiex Civil Design & Consultancy

Authorised Signature

Address: #42, 18th Cross, Sri Ram Pura Main Road, Jakkur, Amruthahalli, Bangalore-560064
Ph No:- +91 9482685185, +91 9035830663
Email: qualiexpvtltd@gmail.com

Job No: QECD/BBMP/YNK/QC-2/P-3/W-1/2020-21

Test Report

Project Name	Improvements to Burial Ground at Yelahanka and Kenchenahalli in Ward No.01 & 02 of Yelahanka Sub Division (PACKAGE-03)
Client	The Asst Executive Engineer, Yelahanka Sub Division, BBMP
Mix Type	Concrete(M20)
Contractor	Sri.Rajeswaren Satheesh (Sathya Constructions)
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Yelahanka Burial ground
Material	Concrete for Plinth
Size of cubes	150x150x150mm
Cross Sectional Area	22500mm2
Sample No	4
Sample Collected Date	4-Jan-2021
Test Date	1-Feb-2021

AE-1
A.E.E
AE

Compressive strength of Concrete

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Density (kg/m^3)	Max. Load (KN)	Area (mm^2)	Compressive Strength (N/mm^2)	Avg. Strength
1	20	28	5.00	1481.48	515	22500.00	22.89	23.07
2	20	28	5.00	1481.48	524	22500.00	23.29	
3	20	28	5.00	1481.48	532	22500.00	23.64	
4	20	28	5.00	1481.48	516	22500.00	22.93	
5	20	28	5.00	1481.48	524	22500.00	23.29	
6	20	28	5.00	1481.48	503	22500.00	22.36	

Results: 28-days Compressive strength of cement is **23.07** N/mm2

For Qualiex Civil Design & Consultancy

Authorised Signature

Address: #42, 18th Cross, Sri Ram Pura Main Road, Jakkur, Amruthahalli, Bangalore-560064
Ph No:- +91 9482685185, +91 9035830663
Email: qualiexpvtltd@gmail.com

Job No: QECD/BBMP/YNK/QC-2/P-3/W-1/2020-21

Test Report

Project Name	Improvements to Burial Ground at Yelahanka and Kenchenahalli in Ward No.01 & 02 of Yelahanka Sub Division (PACKAGE-03)
Client	The Asst Executive Engineer, Yelahanka Sub Division, BBMP
Mix Type	Concrete(M20)
Contractor	Sri.Rajeswaren Sathcesh (Sathya Constructions)
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Yelahanka Burial ground
Material	Concrete for Column
Size of cubes	150x150x150mm
Cross Sectional Area	22500mm2
Sample No	1
Sample Collected Date	22-Dec-2020
Test Date	29-Dec-2020

Compressive strength of Concrete

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Density (kg/m^3)	Max. Load (KN)	Area (mm^2)	Compressive Strength (N/mm^2)	Avg. Strength
1	20	7	5.00	1481.48	342	22500.00	15.20	14.72
2	20	7	5.00	1481.48	315	22500.00	14.00	
3	20	7	5.00	1481.48	322	22500.00	14.31	
4	20	7	5.00	1481.48	362	22500.00	16.09	
5	20	7	5.00	1481.48	321	22500.00	14.27	
6	20	7	5.00	1481.48	325	22500.00	14.44	

A.E.E

Results: 7-days Compressive strength of cement is **14.72** N/mm2

For Qualiex Civil Design & Consultancy

Authorised Signature

Address: #42, 18th Cross, Sri Ram Pura Main Road, Jakkur, Amruthahalli, Bangalore-560064
Ph No:- +91 9482685185, +91 9035830663
Email: qualiexpvtltd@gmail.com

GSTIN: 29AYHPN8663P1ZA
QUALIEX CIVIL DESIGN & CONSULTANCY
Project Management Services

Job No: QECD/BBMP/YNK/QC-2/P-3/W-1/2020-21

Test Report

Project Name	Improvements to Burial Ground at Yelahanka and Kenchenahalli in Ward No.01 & 02 of Yelahanka Sub Division (PACKAGE-03)
Client	The Asst Executive Engineer, Yelahanka Sub Division, BBMP
Mix Type	Concrete(M20)
Contractor	Sri.Rajeswaren Satheesh (Sathya Constructions)
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Yelahanka Burial ground
Material	Concrete for Column
Size of cubes	150x150x150mm
Cross Sectional Area	22500mm2
Sample No	4
Sample Collected Date	4-Jan-2021
Test Date	11-Jan-2021

Compressive strength of Concrete

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Density (kg/m^3)	Max. Load (KN)	Area (mm^2)	Compressive Strength (N/mm^2)	Avg. Strength
1	20	7	5.00	1481.48	315	22500.00	14.00	14.69
2	20	7	5.00	1481.48	345	22500.00	15.33	
3	20	7	5.00	1481.48	324	22500.00	14.40	
4	20	7	5.00	1481.48	325	22500.00	14.44	
5	20	7	5.00	1481.48	351	22500.00	15.60	
6	20	7	5.00	1481.48	323	22500.00	14.36	

A.E.E

AE

Results: 7-days Compressive strength of cement is **14.69 N/mm2**

For Qualiex Civil Design & Consultancy

Authorised Signature

Address: #42, 18th Cross, Sri Ram Pura Main Road, Jakkur, Amruthahalli, Bangalore-560064
Ph No:- +91 9482685185, +91 9035830663
Email: qualiexpvtltd@gmail.com

GSTIN: 29AYHPN8663P1ZA
QUALIEX CIVIL DESIGN & CONSULTANCY
Project Management Services

Job No: QECD/BBMP/YNK/QC-2/P-3/W-1/2020-21

Test Report

Project Name	Improvements to Burial Ground at Yelahanka and Kenchenahalli in Ward No.01 & 02 of Yelahanka Sub Division (PACKAGE-03)
Client	The Asst Executive Engineer, Yelahanka Sub Division, BBMP
Mix Type	Concrete(M20)
Contractor	Sri.Rajeswaren Satheesh (Sathya Constructions)
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Yelahanka Burial ground
Material	Concrete for Column
Size of cubes	150x150x150mm
Cross Sectional Area	22500mm2
Sample No	2
Sample Collected Date	22-Dec-2020
Test Date	19-Jan-2021

Compressive strength of Concrete

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Density (kg/m³)	Max. Load (KN)	Area (mm²)	Compressive Strength (N/mm²)	Avg. Strength
1	20	28	5.00	1481.48	516	22500.00	22.93	22.98
2	20	28	5.00	1481.48	520	22500.00	23.11	
3	20	28	5.00	1481.48	511	22500.00	22.71	
4	20	28	5.00	1481.48	532	22500.00	23.64	
5	20	28	5.00	1481.48	514	22500.00	22.84	
6	20	28	5.00	1481.48	509	22500.00	22.62	

Average 28-days Compressive strength of cement is **22.98** N/mm2

For Qualiex Civil Design & Consultancy

Authorised Signature

Address: #42, 18th Cross, Sri Ram Pura Main Road, Jakkur, Amruthahalli, Bangalore-560064
Ph No:- +91 9482685185, +91 9035830663
Email: qualiexpvtltd@gmail.com

GSTIN: 29AYHPN8663P1ZA
QUALIEX CIVIL DESIGN & CONSULTANCY
Project Management Services

Job No: QECD/BBMP/YNK/QC-2/P-3/W-1/2020-21

Test Report

Project Name	Improvements to Burial Ground at Yelahanka and Kenchenahalli in Ward No.01 & 02 of Yelahanka Sub Division (PACKAGE-03)
Client	The Asst Executive Engineer, Yelahanka Sub Division, BBMP
Mix Type	Concrete(M20)
Contractor	Sri.Rajeswaren Satheesh (Sathya Constructions)
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Yelahanka Burial ground
Material	Concret for Column
Size of cubes	150x150x150mm
Cross Sectional Area	22500mm2
Sample No	3
Sample Collected Date	22-Dec-2020
Test Date	19-Jan-2021

Compressive strength of Concrete

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Density (kg/m³)	Max. Load (KN)	Area (mm²)	Compressive Strength (N/mm²)	Avg. Strength
1	20	28	5.00	1481.48	514	22500.00	22.84	
2	20	28	5.00	1481.48	532	22500.00	23.64	
3	20	28	5.00	1481.48	521	22500.00	23.16	22.77
4	20	28	5.00	1481.48	501	22500.00	22.27	
5	20	28	5.00	1481.48	500	22500.00	22.22	
6	20	28	5.00	1481.48	506	22500.00	22.49	

A.E.E

Results: 28-days Compressive strength of cement is **22.77 N/mm2**

For Qualiex Civil Design & Consultancy

Authorised Signature

Address: #42, 18th Cross, Sri Ram Pura Main Road, Jakkur, Amruthahalli, Bangalore-560064
Ph No:- +91 9482685185, +91 9035830663
Email: qualiexpvtltd@gmail.com

GSTIN: 29AYHPN8663P1ZA
QUALIEX CIVIL DESIGN & CONSULTANCY
Project Management Services

Job No: QECD/BBMP/YNK/QC-2/P-3/W-1/2020-21

Test Report

Project Name	Improvements to Burial Ground at Yelahanka and Kenchenahalli in Ward No.01 & 02 of Yelahanka Sub Division (PACKAGE-03)
Client	The Asst Executive Engineer, Yelahanka Sub Division, BBMP
Mix Type	Concrete(M20)
Contractor	Sri.Rajeswaren Satheesh (Sathya Constructions)
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Yelahanka Burial ground
Material	Concrete for Column
Size of cubes	150x150x150mm
Cross Sectional Area	22500mm2
Sample No	L1
Sample Collected Date	4-Jan-2021
Test Date	1-Feb-2021

Compressive strength of Concrete

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Density (kg/m³)	Max. Load (KN)	Area (mm²)	Compressive Strength (N/mm²)	Avg. Strength
1	20	28	5.00	1481.48	514	22500.00	22.84	23.18
2	20	28	5.00	1481.48	532	22500.00	23.64	
3	20	28	5.00	1481.48	522	22500.00	23.20	
4	20	28	5.00	1481.48	516	22500.00	22.93	
5	20	28	5.00	1481.48	521	22500.00	23.16	
6	20	28	5.00	1481.48	524	22500.00	23.29	

AE-1
AEE
AE

Result: 28-days Compressive strength of cement is **23.18** N/mm2

For Qualiex Civil Design & Consultancy

Authorised Signature

Address: #42, 18th Cross, Sri Ram Pura Main Road, Jakkur, Amruthahalli, Bangalore-560064
Ph No:- +91 9482685185, +91 9035830663
Email: qualiexpvtltd@gmail.com

GSTIN: 29AYHPN8663P1ZA

QUALIEX CIVIL DESIGN & CONSULTANCY

Project Management Services

Job No: QECD/BBMP/YNK/QC-2/P-3/W-1/2020-21

Test Report

Project Name	Improvements to Burial Ground at Yelahanka and Kenchenahalli in Ward No.01 & 02 of Yelahanka Sub Division (PACKAGE-03)
Client	The Asst Executive Engineer, Yelahanka Sub Division, BBMP
Mix Type	Concrete(M15)
Contractor	Sri.Rajeswaren Satheesh (Sathya Constructions)
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Material	Concrete
Size of cubes	150x150x150mm
Cross Sectional Area	22500mm2
Sample No	1
Sample Collected Date	8-Jan-2021
Test Date	11-Jan-2021

Compresive strength of Concrete

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Density (kg/m^3)	Max. Load (KN)	Area (m^2)	Compressive Strength	Avg. Strength
1	15	7	5.00	1481.48	211	22500.00	9.38	10.05
2	15	7	5.00	1481.48	235	22500.00	10.44	
3	15	7	5.00	1481.48	226	22500.00	10.04	
4	15	7	5.00	1481.48	214	22500.00	9.51	
5	15	7	5.00	1481.48	242	22500.00	10.76	
6	15	7	5.00	1481.48	229	22500.00	10.18	

Remarks: 7-days Compressive strength of ceme 10.05 N/mm2

AE

AEE

For Qualiex Civil Design & Consultancy

Authorised Signature

Address: #42, 18th Cross, Sri Ram Pura Main Road, Jakkur, Amruthahalli, Bangalore-560064
Ph No:- +91 9482685185, +91 9035830663
Email: qualiexpvtltd@gmail.com

Job No: QECD/BBMP/YNK/QC-2/P-3/W-1/2020-21

Test Report

Project Name	Improvements to Burial Ground at Yelahanka and Kenchenahalli in Ward No.01 & 02 of Yelahanka Sub Division (PACKAGE-03)
Client	The Asst Executive Engineer, Yelahanka Sub Division, BBMP
Mix Type	Concrete(M15)
Contractor	Sri.Rajeswaren Satheesh (Sathya Constructions)
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Material	Concrete
Size of cubes	150x150x150mm
Cross Sectional Area	22500mm2
Sample No	2
Sample Collected Date	8-Jan-2021
Test Date	11-Jan-2021

Compresive strength of Concrete

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Density (kg/m^3)	Max. Load (KN)	Area (m^2)	Compressive Strength	Avg. Strength
1	15	7	5.00	1481.48	216	22500.00	9.60	9.93
2	15	7	5.00	1481.48	224	22500.00	9.96	
3	15	7	5.00	1481.48	234	22500.00	10.40	
4	15	7	5.00	1481.48	215	22500.00	9.56	
5	15	7	5.00	1481.48	231	22500.00	10.27	
6	15	7	5.00	1481.48	221	22500.00	9.82	

Result: 7-days Compressive strength of ceme 9.93 N/mm2

A.E.E

For Qualiex Civil Design & Consultancy

Authorised Signature

Address: #42, 18th Cross, Sri Ram Pura Main Road, Jakkur, Amruthahalli, Bangalore-560064
Ph No:- +91 9482685185, +91 9035830663
Email: qualiexpvtltd@gmail.com

GSTIN: 29AYHPN8663P1ZA
QUALIEX CIVIL DESIGN & CONSULTANCY
Project Management Services

Job No: QECD/BBMP/YNK/QC-2/P-3/W-1/2020-21

Test Report

Project Name	Improvements to Burial Ground at Yelahanka and Kenchenahalli in Ward No.01 & 02 of Yelahanka Sub Division (PACKAGE-03)
Client	The Asst Executive Engineer, Yelahanka Sub Division, BBMP
Mix Type	Concrete(M15)
Contractor	Sri.Rajeswaren Satheesh (Sathya Constructions)
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Material	Concrete
Size of cubes	150x150x150mm
Cross Sectional Area	22500mm2
Sample No	1
Sample Collected Date	8-Jan-2021
Test Date	1-Feb-2021

Compresive strength of Concrete

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Density (kg/m^3)	Max. Load (KN)	Area (m^2)	Compressive Strength	Avg. Strength
1	15	28	5.00	1481.48	359	22500.00	15.96	15.77
2	15	28	5.00	1481.48	364	22500.00	16.18	
3	15	28	5.00	1481.48	341	22500.00	15.16	
4	15	28	5.00	1481.48	355	22500.00	15.78	
5	15	28	5.00	1481.48	362	22500.00	16.09	
6	15	28	5.00	1481.48	348	22500.00	15.47	

A.E.E

Result: 7-days Compressive strength of ccmc 15.77 N/mm2

For Qualiex Civil Design & Consultancy

Authorised Signature

Address: #42, 18th Cross, Sri Ram Pura Main Road, Jakkur, Amruthahalli, Bangalore-560064
Ph No:- +91 9482685185, +91 9035830663
Email: qualiexpvtltd@gmail.com

GSTIN: 29AYHPN8663P1ZA

QUALIEX CIVIL DESIGN & CONSULTANCY

Project Management Services

Job No: QECD/BBMP/YNK/QC-2/P-3/W-1/2020-21

Test Report

Project Name	Improvements to Burial Ground at Yelahanka and Kenchenahalli in Ward No.01 & 02 of Yelahanka Sub Division (PACKAGE-03)
Client	The Asst Executive Engineer, Yelahanka Sub Division, BBMP
Mix Type	Concrete(M15)
Contractor	Sri.Rajeswaren Satheesh (Sathya Constructions)
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Material	Concrete
Size of cubes	150x150x150mm
Cross Sectional Area	22500mm2
Sample No	2
Sample Collected Date	8-Jan-2021
Test Date	1-Feb-2021

Compresive strength of Concrete

Cube	Concrete Grade	Age at Test (Days)	Weight (kg)	Density (kg/m^3)	Max. Load (KN)	Area (m^2)	Compressive Strength	Avg. Strength
1	15	28	5.00	1481.48	351	22500.00	15.60	15.41
2	15	28	5.00	1481.48	356	22500.00	15.82	
3	15	28	5.00	1481.48	344	22500.00	15.29	
4	15	28	5.00	1481.48	356	22500.00	15.82	
5	15	28	5.00	1481.48	348	22500.00	15.47	
6	15	28	5.00	1481.48	325	22500.00	14.44	

Result for 28 days Compressive strength of ccme 15.41 N/mm2

A.E.E

AE

For Qualiex Civil Design & Consultancy

Authorised Signature

Address: #42, 18th Cross, Sri Ram Pura Main Road, Jakkur, Amruthahalli, Bangalore-560064
Ph No:- +91 9482685185, +91 9035830663
Email: qualiexpvtltd@gmail.com

Job No: QECD/BBMP/YNK/QC-2/P-3/W-1/2020-21

Test Report

Project Name	Improvements to Burial Ground at Yelahanka and Kenchenahalli in Ward No.01 & 02 of Yelahanka Sub Division (PACKAGE-03)
Client	The Asst Executive Engineer, Yelahanka Sub Division, BBMP
Job No	Job No: QECD/BBMP/YNK/QC-2/P-3/W-1/2020-21
Mix Type	Cement Concrete Blocks
Contractor	Sri.Rajeswaren Satheesh (Sathya Constructions)
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Yelahanka Burial ground
Material	Soild block
Sample No	1
Date	17-Jan-2021

Solid block

SL.NO	Failure Load in KN	CHARACTERISTIC COMPRESSIVE STRENGTH, fck , in, N/Sq.mm	AVG CHARACTERISTIC COMPRESSIVE STRENGTH, fck in N/Sq.mm	REMARKS
1	471	5.85	5.87	
2	468	5.8		
3	475	5.95		

A.E.E

Results: Compressive strength of solid block is 5.87 N/mm2

For Qualiex Civil Design & Consultancy

Authorised Signature

Job No: QECD/BBMP/YNK/QC-2/P-3/W-1/2020-21

Test Report

Project Name	Improvements to Burial Ground at Yelahanka and Kenchenahalli in Ward No.01 & 02 of Yelahanka Sub Division (PACKAGE-03)
Client	The Asst Executive Engineer, Yelahanka Sub Division, BBMP
Job No	Job No: QECD/BBMP/YNK/QC-2/P-3/W-1/2020-21
Mix Type	Cement Concrete Blocks
Contractor	Sri.Rajeswaren Satheesh (Sathya Constructions)
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Yelahanka Burial ground
Material	Soild block
Sample No	2
Date	17-Jan-2021

Solid block

SL.NO	Failure Load in KN	CHARACTERISTIC COMPRESSIVE STRENGTH, fck , in, N/Sq.mm	AVG CHARACTERISTIC COMPRESSIVE STRENGTH, fck in N/Sq.mm	REMARKS
1	476	5.62	5.76	
2	471	5.81		
3	468	5.86		

AE
A.E.E
AE

Results: Compressive strength of solid block is 5.76 N/mm2

For Qualiex Civil Design & Consultancy

Authorised Signature

Address: #42, 18th Cross, Sri Ram Pura Main Road, Jakkur, Amruthahalli, Bangalore-560064
Ph No:- +91 9482685185, +91 9035830663
Email: qualiexpvtltd@gmail.com

Job No: QECD/BBMP/YNK/QC-2/P-3/W-1/2020-21

Test Report

Project Name	Improvements to Burial Ground at Yelahanka and Kenchenahalli in Ward No.01 & 02 of Yelahanka Sub Division (PACKAGE-03)
Client	The Asst Executive Engineer, Yelahanka Sub Division, BBMP
Mix Type	Steel
Contractor	Sri.Rajeswaren Satheesh (Sathya Constructions)
Test Method	IS : 4031 (part 6)-1988 & Specification for Road & Bridge Works, MORT&H, Rev. V.
Location	Bay
Material	Steel
Sample No	1
Date	23/12/2020

Steel

Sl. No.	Dia in mm	Weight in Kg/mtr	Average Weight Kg/mtr	Ultimate Load in KN	Ultimate Tensile stress in N/mm²	Average Ultimate Tensile Stress N/mm²	Elongation in mm	Bending and Rebending
1	8	0.395	0.4	32.2	640.6	622.7	20	OK
	8	0.398		30.4	604.79			
2	10	0.601	0.6	47.2	600.97	597.15	20	OK
	10	0.593		46.6	593.33			
3	12	0.896	0.88	72.8	643.69	631.32	20	OK
	12	0.872		70	618.94			

A.E.E

A.E

For Qualiex Civil Design & Consultancy

Authorised Signature